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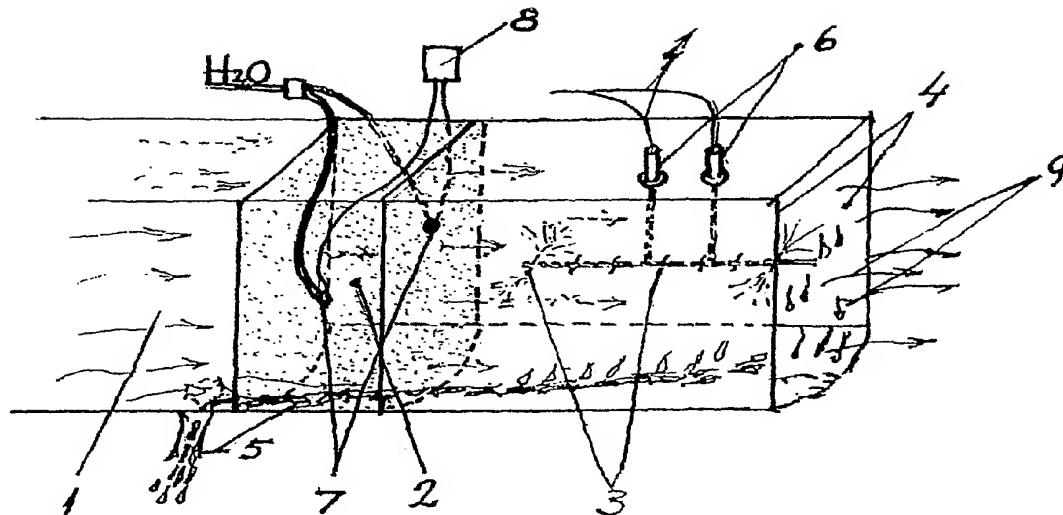
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(54) Title: DEVICE AND METHOD FOR REMOVING UNDESIRABLE GASES AND PARTICLES FROM THE AIR



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(57) Abstract: This invention refers to a device and a method for removing undesirable gases and particles from the air, which device comprises a purifying chamber through which air (1) to be purified is arranged to pass and having an entrance end provided with a zone (2) producing water dust, said purifying chamber being provided with ion emitting tips (3) operating by high voltage current and with collecting surfaces (4) collecting impurities from the air. The invention is characterised in that said zone (2) is provided with dies (7) producing water dust having a droplet size of 20 to 40 µm, and that said collecting surfaces (4) are grounded and that the ion emitting tips (3) are directed toward said collecting surfaces (4) and generate ion jets rushing from the ion emitting tips (3) causing water dust and gases and particulate materials attached to the droplets of said dust to be forced against said collecting surfaces (4).